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## APPENDIX I

#### In the Claims:

1. A substantially solid composition comprising: a compound with the structure of Formula I

### FORMULA I

$$A \qquad N_1 + - - - CR_2R_3C \equiv N \cdot Y \cdot ZH_2O$$

wherein A is a saturated ring formed by a plurality of atoms in addition to the  $N_1$  atom, the saturated ring atoms including at least one carbon atom and at least one heteroatom  $\underline{in}$  addition to the said at least one heteroatom selected from the group consisting of O, S, and N atoms, the substituent  $R_1$  bound to the  $N_1$  atom of the Formula I structure is (a) a  $C_{1.8}$  alkyl or alkoxylated alkyl where the alkoxy is  $C_{2.4}$ , (b) a  $C_{4.24}$  cycloalkyl, (c) a  $C_{7.24}$  alkaryl, (d) a repeating or nonrepeating alkoxy or alkoxylated alcohol, where the alkoxy unit is  $C_{2.4}$ , or (e)  $-CR'_2R'_3C$  N where  $R'_2$  and  $R'_3$  each H, a  $C_{1.24}$  alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is  $C_{2.4}$ , the  $R_2$  and  $R_3$  substituents being each H, a  $C_{1.24}$  alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is  $C_2$ ,  $C_3$  is a value in the range of 0 to 10, and wherein Y is monovalent or multivalent and is sulfate, bisulfate, tosylate, or mixtures of sulfate and bisulfate as counterion, the Formula I compound capable of reacting with a peroxygen source in alkaline solutions; and,

a bleaching and/or cleaning adjuvant carried by, coated with, or admixed with the compound.

2. The Formula I compound as in Claim 1 wherein A is a saturated ring formed by four carbon atoms and one oxygen atom in addition to the  $N_1$  atom.

- 3. The Formula I compound as in Claim 1 wherein A is a saturated ring formed by four carbon atoms and an N<sub>2</sub> atom in addition to the N<sub>1</sub> atom, with N<sub>2</sub> being a secondary amine, a tertiary amine having the substituent –CR<sub>5</sub>R<sub>6</sub>CN or a quaternary amine having the substituents  $-R_5$  and  $-CR_5R_6CN$ , wherein  $R_5$  and  $R_6$  may each be a H or C<sub>1-16</sub> alkyl.
- 4. The composition as in Claim 1 wherein the Formula I compound is from about 1 wt.% to less than about 100 wt.% of the composition total.
  - 5. The composition as in Claim 1 being substantially non-hygroscopic.
- 6. The composition as in Claim 1 wherein the composition includes from about 1 wt.% to about 99 wt. % of another compound related to the Formula I compound, but differing therefrom in counterion, and wherein Formula I compound is in an amount effective for reduced hygroscopicity of the salt composition.
- 7. The composition as in Claim 1 wherein the Formula I compound has a water uptake of less than about 5 wt.% water at 80% R.H. and 80°F at equilibrium or about 48 hours.
  - 8. The composition as in Claim 1 wherein Z is a value in the range of 0 to 6.
  - 9. The composition as in Claim 2 wherein  $R_1$  is methyl, ethyl, or butyl.
- 10. A substantially solid composition comprising: a compound with the structure of Formula I

### FORMULA I

$$A \qquad N_1 + - - - CR_2R_3C \equiv N \cdot Y \cdot ZH_2O$$

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wherein A is a saturated ring formed by five atoms in addition to the  $N_1$  atom, the five saturated ring atoms being four carbon atoms and a heteroatom, the substituent  $R_1$  bound to the  $N_1$  atom of the Formula I structure is (a) a methyl, ethyl, or butyl group or alkoxylated alkyl where the alkoxy is  $C_{2-4}$ , (b) a  $C_{4-24}$  cycloalkyl, (c) a  $C_{7-24}$  alkaryl, (d) a repeating or nonrepeating alkoxy or alkoxylated alcohol, where the alkoxy unit is  $C_{2-4}$ , or (e)  $-CR'_2R'_3C\equiv N$  where  $R'_2$  and  $R'_3$  are each H, a  $C_{1-24}$  alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is  $C_{2-4}$ , the  $R_2$  and  $R_3$  substituents are each H, a  $C_{1-24}$  alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is  $C_{2-4}$ ,  $C_{1-24}$  alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is  $C_{2-4}$ ,  $C_{1-24}$  is a value in the range of 0 to 10, and wherein Y is monovalent or multivalent and is sulfate, bisulfate, tosylate, or mixtures of bisulfate and sulfate as counterion; and,

a bleaching and/or cleaning adjuvant carried by, coated with, or admixed with the compound.

- 11. The composition as in Claim 10 being substantially non-hygroscopic.
- 12. The composition as in Claim 10 wherein the Formula I compound is from about 1 wt.% to about 100 wt. % of the total composition.
- 13. The composition as in Claim 10 wherein the composition includes from about 1 wt.% to about 99 wt.% of another compound related to the Formula I compound, but differing therefrom in counterion, and wherein Formula I compound is in an amount effective for reduced hygroscopicity of the salt composition.
- 14. The composition as in Claim 10 wherein the Formula I compound has a water uptake of less than about 5 wt.% water at 80% R.H. and 80°F at equilibrium or about 48 hours.
  - 15. The composition as in Claim 10 wherein Z is 0 to 1.
- 16. The composition as in Claim 10 wherein the heteroatom is oxygen or sulfur and  $R_1$  is a lower alkyl.

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- 17. The composition as in Claim 16 being in the form of flowable granules.
- 18. The composition as in Claim 17 wherein the granules have an average particle size between about 100  $\mu m$  to about 1200  $\mu m$ .
- 19. The composition as in Claim 17 wherein the granules are substantially non-aggregating under ambient conditions.
  - 20. A substantially solid salt composition comprising: a compound with the structure of Formula II

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wherein n is 0 to 7, Z is a value in the range of 0 to 10, and Y is monovalent or multivalent and is sulfate, bisulfate, tosylate, or mixtures of sulfate and bisulfate as counterion; and

a bleaching and/or cleaning adjuvant carried by, coated with, or admixed with the compound.

- 21. The salt composition as in Claim 20 wherein the Formula II compound is from about 1 wt.% to about 100 wt.% of the composition total.
  - 22. The salt composition as in Claim 20 being substantially non-hygroscopic.
- 23. The salt composition as in Claim 20 wherein the salt composition includes from about 1 wt% to about 99 wt.% of another compound related to the Formula II compound, but differing therefrom in counterion, and wherein Formula II compound is in an amount effective for reduced hygroscopicity of the salt composition.